



No.	CF-2006-16R1	1/2
Issue Date	04 June 2007	

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to **Canadian Aviation Regulation (CAR) 593**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with **CAR 605.84** and the above-referenced **Standard**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF- 2006-16R1

Subject: **Nose Landing Gear (NLG) and Nose Gear Door Selector Valves**

Effective: 4 August 2006 (effective date of original issue)

Revision: Supersedes Airworthiness Directive (AD) CF-2006-16, dated 6 July 2006

Applicability: Bombardier Inc. Models:

- CL-600-1A11 – Serial numbers 1004 through 1085
- CL-600-2A12 – Serial numbers 3001 through 3066
- CL-600-2B16 – Serial numbers 5001 through 5194
- CL-600-2B16 – Serial numbers 5301 through 5699

Compliance: As indicated below, unless already accomplished.

Background: Some NLG and nose gear door selector valves, part number 601R75146-1 (Tactair part number 750006000), may have been incorrectly lock-wired and/or incorrectly torqued during assembly. This condition can lead to the end cap backing off, with consequent damage to a seal and internal leakage within the valve. Subsequently, if electrical power is transferred or removed from the aircraft before the NLG safety pin is installed, any pressure, including residual pressure, in the No. 3 hydraulic system can result in an uncommanded NLG retraction.

Although there have been no such cases reported on the Challenger models covered by this directive, there have been five cases reported on CRJ (CL600-2B19) aircraft, the most recent of which resulted in the collapse of the NLG at the departure gate.

This revision amends the applicability of the directive, since CL-600-2B16 aircraft with serial numbers 5701 and subsequent (CL-605) have valves installed in production that are ink stamped with the marking "SB750006000-1". In addition, Notes 2 and 3 have been added following paragraph A.2 of the Corrective Actions.

Corrective Actions: **A. Applicable to:**

- CL-600-1A11 – Serial numbers 1004 through 1085**
- CL-600-2A12 – Serial numbers 3001 through 3066**
- CL-600-2B16 – Serial numbers 5001 through 5194 and 5301 through 5630**

1. Within 500 hours air time or within 12 months of the effective date of this directive, whichever comes first, check the installed NLG and nose gear door selector valves and subsequently rework, replace and test as necessary, in accordance with the instructions of the applicable Service Bulletin (SB) listed in paragraph 2 below, or a later revision approved by the Chief, Continuing Airworthiness, Transport Canada.

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the **Civil Aviation Communications Centre (AARC)** at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or www.tc.gc.ca/civilaviation/communications/centre/address.asp



2. Applicable Service Bulletins:

Model	Service Bulletin	Date
CL-600-1A11 (CL-600)	SB 600-0721, Revision 01	20 February 2006
CL-600-2A12 (CL-601)	SB 601-0558, Revision 01	20 February 2006
CL-600-2B16 (CL-601-3A/3R)	SB 601-0558, Revision 01	20 February 2006
CL-600-2B16 (CL-604)	SB 604-32-021, Revision 02	20 February 2007

Notes: 1. Checking and subsequent action carried out in accordance with the basic issue, dated 15 December 2003, of any one of the above service bulletins does NOT satisfy the requirements of this directive.

2. For CL-600-2B16 (CL-604) aircraft Serial numbers 5301 through 5630, checking and subsequent action carried out in accordance with Service Bulletin 604-32-021, Revision 01, dated 20 February 2006, satisfies the requirements of this directive.

3. CL-600-2B16 (CL-604) aircraft Serial numbers 5631 through 5699 (which were added to the effectivity of Service Bulletin 604-32-021, at Revision 02, dated 20 February 2007) are not subject to paragraph A. of this directive since they have already been subject to paragraph B. of this directive from the effective date of its original issue (4 August 2006).

B. As of the effective date of this directive, no replacement/spare NLG and nose gear door selector valve, part number 601R75146-1 (Tactair part number 750006000), with a serial number in the range 0001 through 0767 is permitted to be installed on any aircraft unless it is identified with the marking "SB750006000-1"(ref: Tactair Service Bulletin SB750006000-1) close to the nameplate.

Authorization: For Minister of Transport, Infrastructure and Communities

A. Wan
Acting Chief, Continuing Airworthiness

Contact: Mr. Richard Topham, Continuing Airworthiness, Ottawa, telephone 613-952-4428, facsimile 613-996-9178 or e-mail tophamr@tc.gc.ca or any Transport Canada Centre.